BRAYNIN, I.Ye. (Stalino); SHOLYANITSKIY, Ya.A. (Stalino); SHAPOVALOV, S.I. (Stalino)

Effect of artificial aging on the graphitization of white cast iron. Izv. AN SSSR. Otd. tekh. nauk. Met. i topl. no.1:49-54 Ja-F '61. (MIRA 14:2)

(Cast iron—Metallurgy) (Annealing of)

SMOLYANITSKIY, Ya.A.; KAPLIY, N.I.

Effect of the speed of tension on the formation of hot cracks in silumin specimens. Izv. vys. ucheb. zav.; tsvet. met. 4 no.4:129-135 '61. (MIRA 15:1)

1. Donetskiy politekhnicheskiy institut, kafedra metallovedeniya i termicheskoy obrabotki metallov.
(Silumin--Testing)
(Thermal stresses)

SHALAMITSKIY, Ya.A.

Shrinkage gauge for the determination of the actual founding shrinkage in various parts of a casting. Lit. proizv. no.12: 28-29 D '61. (MIRA 14:12)

(Gauges) (Founding)

SHVARTSER, A.Ya.; SMOLYANITSKIY, Ya.A.

Equipment for the study of internal stresses in castings being chilled for controlled shrinkage. Izv. vys. ucheb. zav.; chern. met. 5 no.3:196-201 '62. (MIRA 15:5)

1. Donetskiy politekhnicheskiy institut.
(Founding) (Thermal stresses)

KAPLIY, N.I.; SMOLYANITSKIY, Ya.A.

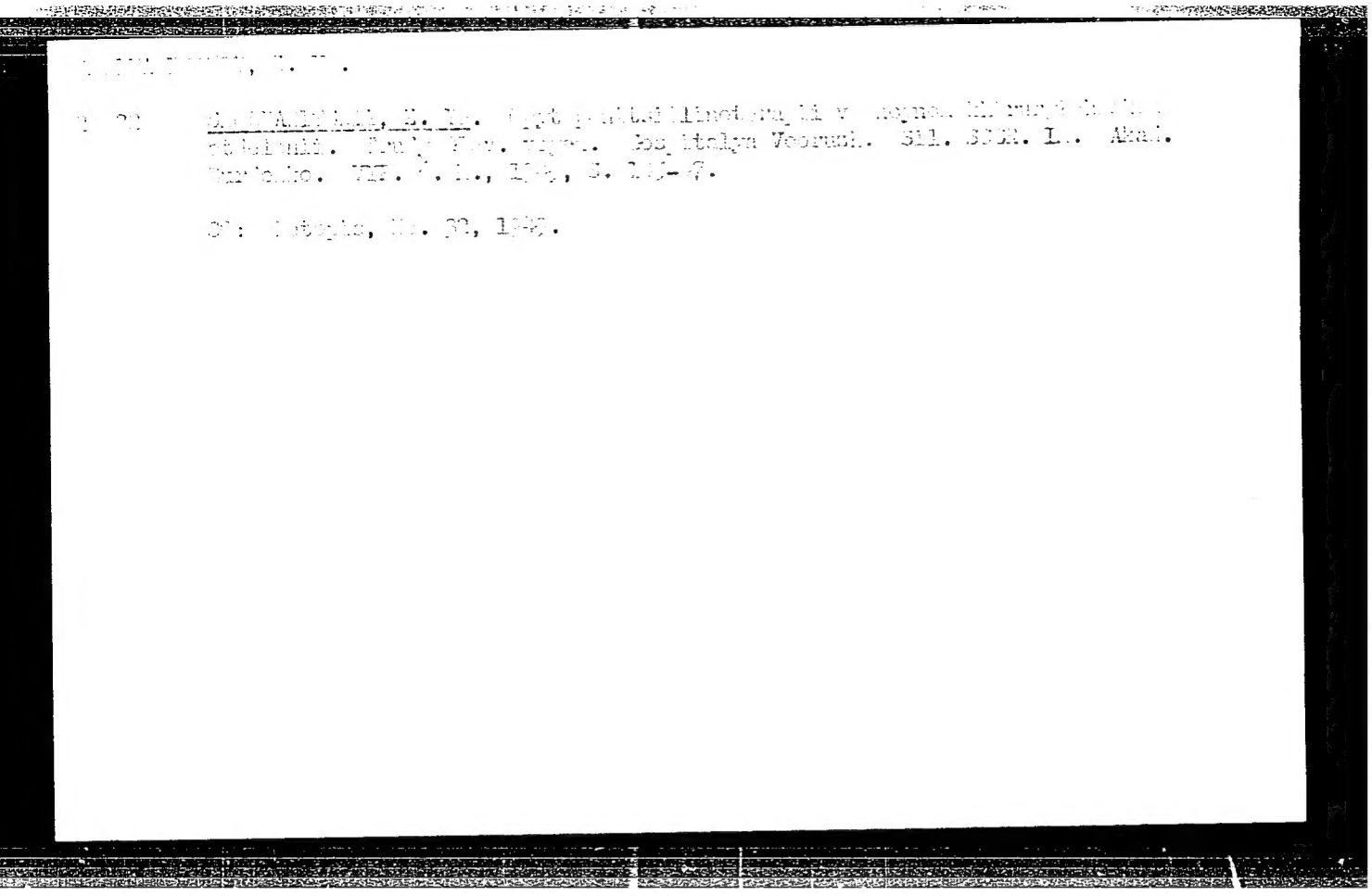
Elastic-plastic deformations in retarding the shrinkage of white cast iron. Izv.vys.ucheb.zav.; chern.met. 5 no.11:175-180 '62. (MIRA 15:12)

1. Donetskiy politekhnicheskiy institut.
(Iron founding) (Deformations (Mechanics))

BRAYNIN, I. Ye.; SMOLYANITSKIY, Ya. A.; SHAPOVALOV, S. I.

Effect of preliminary heat treatment on the graphitization process of white cast iron. Izv. vys. ucheb. zav.; chern. met. 7 no. 5:130-134 '64. (MIRA 17:5)

1. Donetskiy politekhnicheskiy institut.



RADOMYSEL'SKIY, I.D.; NIKISHOV, I.S.; PSHEKOVA, V.P.; SMOLYANKIN, A.B.

Investigating the process of grinding reduced iron sponge and developing a procedure for obtaining iron powders of varying bulk weight. Porosh.met. 2 no.5:51-54 S-O '62. (MIRA 15:11)

1. Institut metallokeramiki i spetsial'nykh splavov AN UkrSSR.
(Powder metallurgy)

25(3) PHASE I BOOK EXPLOITATION SOV/2869

Smolyankin, Ivan Vasil'yevich

Organizatsiya sbyta produktsii na metallurgicheskom zavode (Organization of Product Distribution at a Metallurgical Plant) Moscow, Metallurgizdat, 1959. 114 p. 1,400 copies printed.

Ed.: P.G. Konnov; Ed. of Publishing House: A.I. Brushteyn; Tech. Ed.: A.I. Karasev.

PURPOSE: This book is intended for marketing personnel of metallurgical establishments, as well as for economists and planners engaged in the material and technical supply of metal-consuming branches of industry.

COVERAGE: This book presents a general description of marketing departments in iron and steel establishments. Processing of incoming production orders and maintenance of production schedules are discussed and a more efficient system of work order bookkeeping, transport planning, organization of storage, and expediting of metal products is reviewed. A critical analysis of the

Card 1/5

Organization (Cont.) SOV/2869

Card 3/5

AVAILABLE: Library of Congress

Card 5/5

JG/jb
2-3-60

SOV/68-58-10-17/25

AUTHORS: Chernyshev, M.K. and Smolyankin, M.I.

TITLE: Semi-automatic Tipping of Wagons (Poluavtomaticheskoye oprokidyvaniye vagonov)

PERIODICAL: Koks i Khimiya, 1958, Nr 10, pp 55 - 56 (USSR)

ABSTRACT: The labour force of a coal tippler on the above works was reduced from 20 men to 13 men by the introduction of semi-automation. The system applied is briefly described. There is 1 figure.

ASSOCIATION: Bagleyskiy koksokhimicheskiy zavod (Bagleyskiy Coking Works)

Card 1/1

NIKITIN,S.Ya.; SMOLYANKIN,V.T.; KOLGANOV,V.Z.; LEBEDEV,A.V.; LOMKATSI, G.S.

[Dispersion of slow neutrons into ortho-and paradeuterium] Rasseianie medlennykh neitronov na orto- i para-deiterii; doklady, predstavlennye SSSR na Mezhdunarodnuiu konferentsiiu po mirnomu ispol'zovaniiu atomnoi energii. Moskva, 1955. 12 p. [Microfilm] (Deuterium) (Nuclear physics) (MLRA 9:3)

[illegible], B.P., [illegible], V.Z., [illegible], A.V., [illegible], [illegible],
SMALYUKIN, V.F., and SOKOLOV, A.P., (Acad. Sci. USSR)

"Slow Neutrons Scattering by Ortho- and Para-Tritium."

paper submitted at the All-Union Conf. on Nuclear Reactions in Medium and Low Energy Physics, Moscow, 19-27 Nov 57.

SOV-120-58-1-4/43

AUTHORS: Kolganov, V. Z., Lebedev, A. V., Nikitin, S. Ya. and Smolyankin, V. T.

TITLE: A Liquid Hydrogen Bubble Chamber (Zhidkovodorodnaya puzyr'kovaya kamera)

PERIODICAL: Pribory i Tekhnika Eksperimenta, 1958, Nr 1, pp 31-34 (USSR)

ABSTRACT: The construction of a working liquid hydrogen bubble chamber is described. The volume is 1 litre and the diameter 10 cm. The chamber was designed as a pilot experiment to obtain information which would be useful in the design of a much larger one. A section through the chamber is shown in Fig.1. The working volume of the chamber and the hydrogen reservoir are completely separated. The closed working volume of the chamber is surrounded by a hydrogen bath connected to the hydrogen reservoir. In this way good screening of the chamber from thermal radiation is achieved and the problem of temperature stability is simply resolved by the stabilisation of the pressure in the reservoir. An important feature of the chamber is the method of mounting of the glass

Card 1/3

A Liquid Hydrogen Bubble Chamber.

walls of the chamber. This is illustrated in Fig.2. The Pyrex windows are mounted on copper washers as shown in the latter figure and this was found to be very satisfactory. The method of illumination is described and is illustrated in Fig.3. A typical oscillogram of the working cycle is shown in Fig.4. The chamber can be kept at the lower pressure for 30 to 40 millisecs but this time can be varied. The re-establishing of the pressure to the upper value takes approximately 15 millisecs. Normally, the upper pressure is 7 atm and the lower 3 atm. A series of photographs was also taken with pressure reductions down to 1 to 2 atm. Special experiments have shown that the sensitive time is not less than 40 milli secs. The repetition frequency of the working cycle is about 7 to 10 cycles per minute. Fig.5 shows a photograph of tracks obtained in the neutron beam of a synchrocyclotron obtained in studies of π-meson formation in n-p collisions. The following persons collaborated: A. N. Yershov, N. A. Zubkov, V. A. Beketov, Ye.F. Lokhaneva,

SOV-120-58-1-4/43

A Liquid Hydrogen Bubble Chamber.

N. I. Makarov, A. P. Sokolov, G. S. Lomkatsi, G. I. Blinov and Yu. S. Krestnikov. There are 5 figures, no tables and 9 references, of which 6 are English, 3 Soviet.

SUBMITTED: July 3, 1957.

1. Bubble chambers--Design 2. Bubble chambers--Materials
3. Bubble chambers--Performance 4. Hydrogen (Liquid)--Applications
5. Neutrons--Detection

Card 3/3

SOV/120-58-4-3/30

AUTHORS: Kolganov, V. Z., Lebedev, A. V., Nikitin, S. Ya., Smolyankin, V. T. and Sokolov, A. P.

TITLE: A Liquid Deuterium Bubble Chamber (Puzyr'kovaya kamera s zhidkim deyteriyem)

PERIODICAL: Pribory i tekhnika eksperimenta, 1958, Nr 4, p 30 and 1 plate (USSR)

ABSTRACT: In Ref.1 the authors described a working hydrogen bubble chamber. An experiment, described in the present article, was made to discover whether it is possible to use deuterium as the working liquid in the chamber. Two difficulties had to be kept in mind. First, it was expected that the presence of β-active tritium in deuterium (10^{-8} to 10^{-9}%) would lead to a large number of short tracks in the liquid and thus produce a considerable background. Experiments on deuterium in a diffusion chamber have been unsuccessful precisely for this reason (Ref.2). Secondly, the critical pressure of deuterium (15.5 atm) is considerably higher than the critical pressure for hydrogen (12.8 atm). It is well-known (Ref.3) that the

Card 1/3

A Liquid Deuterium Bubble Chamber

normal superheating of the liquid is effected [takes place] when the pressure in the chamber up before expansion is equal to two-thirds of the critical pressure. This condition may be easily satisfied if the chamber and the bath is filled with liquid deuterium. However, if the bath is filled with liquid hydrogen and the chamber with liquid deuterium, then it is impossible to obtain pressures greater than 8 atm in the chamber. For this reason it was feared that on expansion the superheating of the deuterium would be insufficient and the liquid would be insensitive to radiation. Experiments made to elucidate all these points have shown that it is possible to use deuterium as the working liquid in the bubble chamber without any special purification. The construction and operation of the deuterium chamber is similar in many ways to that of the dydrogen chamber. The bath was cooled down to liquid nitrogen temperature and was filled with liquid hydrogen. The chamber was then filled with technical deuterium which was not specially purified to remove tritium. The pressure in the hydrogen bath was increased to 12.4 atm and was kept at that level. After the thermal equilibrium between the chamber and the bath was

A Liquid Deuterium Bubble Chamber

reached, an expansion of the working colume was carried out. In the absence of radioactive sources in the vicinity of the chamber no tracks or bubbles appeared in the working volume. When a Co^{60} source was placed near the chamber, pictures similar to that shown in Fig. 1 were observed after expansion. L.G. Landsberg and N.I. Makarov are thanked for their help in the experiment. There is 1 figure, no tables and 3 references, 2 of which are Soviet and 1 English. The authors also express their thanks to B.N. Dmitrivevskaya, director of the hydrogen liqued action station of the Laboratory of Nuclear Physics Problems (Laboratoriya yadernykh problem) of OIYAI, and to N.B. Delone who supplied the deuterium.

SUBMITTED: October 26, 1957

Card 3/3

SOV/120-59-1-45/50

AUTHORS: Smolyankin, V. T., Shal'nikov, A. I.

TITLE: An Apparatus for Obtaining Mixtures of Ortho- and Para-Modifications of Deuterium (Polucheniye smesey orto- i para-modifikatsiy deuteriya)

PERIODICAL: Pribory i tekhnika eksperimenta, 1959, Nr 1, p 150 (USSR)

ABSTRACT: The apparatus now described may be used to obtain mixtures of the above gases under pressures close to atmospheric. Deuterium is admitted from the container A (Fig 1) through a reducing valve with an attached rubber reservoir or from the container B containing UD_3 (which decomposes on heating). It is then passed through the trap G containing activated charcoal cooled by liquid nitrogen. This trap condenses all impurities other than helium and the purity of gas leaving the trap can reach 10^{-9}%. Purified gas is then passed through a column containing a catalyser and placed in a liquid hydrogen bath. In this part of the apparatus the gas was condensed and collected in the Dewar reservoir E which was provided with a heater by means of which the deuterium converted into the equilibrium concentration could be evaporated. To obtain mixtures with intermediate concentrations the deuterium was passed through the column with the temperature suitably ad-

Card 1/2

An Apparatus for Obtaining Mixtures of Ortho- and Para- Modifications of Deuterium

justed. Thus, if the temperature of the catalyser was 77°K then the concentration of the ortho-deuterium rose to 68.9% while at room temperature this concentration was 66.7%. To obtain concentrations between 97.8 and 69.8 it was necessary to mix gases containing known concentrations of ortho-deuterium. The analysis of the mixtures was carried out by means of the thermal gas analyzer 3 placed in a liquid nitrogen bath. At liquid nitrogen temperatures the difference in the thermal properties of the two kinds of deuterium is a maximum. There is 1 figure and there are 3 Soviet references.

SUBMITTED: January 22, 1958.

L 20350-65 EWT(m)/EPF(c)/EWP(t)/EWP(b) Pr-4 IJP(c)/AFWL JD
ACCESSION NR: AP4041007 S/0120/64/000/003/0005/0025

AUTHOR: Kliger, G. K.; Kolganov, V. Z.; Lebedev, A. V.; Smolyankin, V. T.; Sokolov, A. P.

TITLE: Problems of designing liquid-hydrogen bubble chambers. (A review)

SOURCE: Pribory* i tekhnika eksperimenta, no. 3, 1964, 5-25

TOPIC TAGS: bubble chamber, liquid hydrogen bubble chamber, bubble chamber design

ABSTRACT: Based on 1946-63 Soviet sources and 1952-63 Western (mostly American) sources, the review covers these points: invention and development of the chamber; principal parts and their arrangement (round, rectangular, conical chambers); transillumination at small angles; metals used for chamber housing and their low-temperature characteristics; illuminators, their expansion-contraction conditions, and gaskets used to meet them; thermostatic controls;

Card 1/2

L 20350-65
ACCESSION NR: AP4041007

sylphon, gas, and piston expansion mechanisms; radiation screens; auxiliary cooling devices; safety devices and safety problems. Twelve large liquid-hydrogen bubble chambers (7 American, 2 French, 1 CERN, 1 British, and 1 TEF Soviet) are listed with these characteristics reported: working space dimensions, housing material, number and arrangement of illuminators, expansion system, illuminator gasket, piston gasket, thermostatic control, liquid hydrogen consumption, operating mode, piston stroke, expansion factor, magnet characteristics, exposure, false radius of curvature, year of completion. Orig. art. has: 20 figures, 14 formulas, and 4 tables.

ASSOCIATION: none

SUBMITTED: 00 ENCL: 00

SUB CODE: NP NO REF SOV: 012 OTHER: 021

Card 2/2

KLIGER, G.K., KOLGANOV, V.Z.; LEBEDEV, A.V.; SMOLYANKIN, V.T.; SOKOLOV, A.P.

Construction of liquid-hydrogen bubble chambers; a survey.
Prib. i tekh. eksp. 9 no.3 3-25 My-Je '64 (MIRA 18:1)

GUZHAVIN, V.M.; KLIGER, G.K.; KOLGANOV, V.Z.; LEBEDEV, A.V.; MARISH, K.S.; MUSIN, M.A.; PROKOSHKIN, Yu.D.; SMOLYANKIN, V.T.; SOKOLOV, A.P.; SOROKO, L.M.; TSUY VA-CHUAN [Ts'ui Wa-ch'uang]

Elastic scattering of 650 Mev. protons. Zhur. eksp. i teor. fiz. 47 no.4:1228-1231 O '64. (MIRA 18:1)

1. Ob"yedinennyy institut yadernykh issledovaniy.

SMOLYANKINA, L., kandidat ekonomicheskikh nauk.

Public health work in Italy. Sov.kras.krest 4 no.1:32 Ja-Mr '54.
(MLRA 7:4)
(Italy--Public health) (Public health--Italy)

S/120/62/000/004/029/047
E039/E420

AUTHORS: Vladimirskiy, V.V., Borisov, V.S., Smolyankina, T.G., Gorbik, V.K., Kurdyukova, Z.A., Moskovtsev, V.A., Smirnov, V.S.

TITLE: Calculation and construction of pole piece correction coils in the proton synchrotron

PERIODICAL: Pribory i tekhnika eksperimenta, no.4, 1962, 153-158

TEXT: Preliminary tests with model magnets showed that the field configuration required correction at the beginning and end of the acceleration cycle. Deviations which are constant in time can be corrected by a small geometrical displacement of the magnet blocks but transient deviations have to be corrected by coils on the pole faces. In the present article calculations are made on the form of these coils. As the radius of curvature of the magnet is large by comparison with the chamber dimensions the problem can be solved for the plane case. In a region limited by two hyperbolas $xy = \pm p$ and a straight line $x = 0$ the surface distribution of the currents is determined for the general case. Suitable positions for the conductors are then selected and the

sum of the magnetic fields produced by these conductors is calculated on a computer. The construction of the coils is described in detail. A completely rigid construction is obtained by embedding the conductors in epoxy-resin. The average gradient produced by the gradient coils in the region $\pm$ 3 cm relative to the equilibrium orbit is -8.01 Oe/cm and the nonlinear coils on the edge produce a field H = -316 Oe with a mean square deviation of 10.8 Oe. The calculated and experimental values of the fields produced by gradient and nonlinear coils are compared and show reasonable agreement. There are 5 figures.

ASSOCIATIONS: Institut teoreticheskoy i eksperimental'noy fiziki GKAE (Institute of Theoretical and Experimental Physics GKAE): Nauchno-issledovatel'skiy institut elektrofizicheskoy apparatury GKAE (Scientific Research Institute of Electrophysical Apparatus GKAE)

SUBMITTED: March 29, 1962

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001651720017-1"

The ion guide and beam-introduction ...

C_2 has ℓ = 220 mm, h = 20 mm, V = 62 kV, ω = 85 mr and $\Delta V/V = 2.2 \times 10^{-3}$. C_3 has ℓ = 220 mm, h = 80 mm, V = 56 kV, ω = 9.6 mr, $\Delta V/V = 1 \times 10^{-2}$, where ℓ is length of the plates, h is the distance between them, ω is the angle through which the beam is bent and $\Delta V/V$ is the required stability. Calculation on the design of the system and its adjustment are given, in particular design details are presented on the first condenser C_1, the electrostatic quadrupole lenses, the ion guide and the magnetic quadrupole lenses. The electrostatic quadrupole lens consists essentially of four stainless steel plates with a hyperbolic profile and the magnetic quadrupole lens is calculated for a gradient of 350 Oe/cm and a length of 15 cm with a magnetic aperture of 60 mm. There are 12 figures.

ASSOCIATION: Institut teoreticheskoy i eksperimental'noy fiziki GKAE (Institute of Theoretical and Experimental Physics GKAE)

SUBMITTED: March 31, 1962

Card 2/3

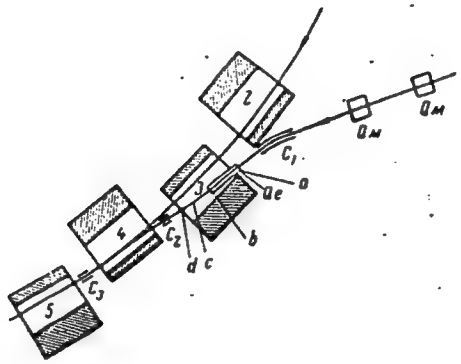


Fig.2.

Card 3/3

KATCHENKOV, S.M.; SMOLYANKO, L.A.

Trace elements in Meso-Cenozoic deposits of the Mangyshlak Peninsula.
Trudy VNIGRI no.155:270-284 '60. (MIRA 14:1)
(Mangyshlak Peninsula--Rocks, Sedimentary--Analysis)
(Trace elements)

AUTHORS: Pershin, A.V., and Smolyanko, N.P. 68-5-3/14

TITLE: Results of the application of a new lining for coke oven doors. (Rezultaty primeneniya novoy futerovki dverey koksovykh pechey).

PERIODICAL: "Koks i Khimiya" (Coke and Chemistry), 1957, No.5, pp.17-18 (U.S.S.R.)

ABSTRACT: In order to decrease the expenditure of manpower on cleaning coke oven doors, various shapes of door linings were tested. It was found that by narrowing the lining and giving it a semicircular shape, tar and carbon depositions on oven doors were considerably decreased. No details of the door and lining design are given. In 1956, 354 doors out of 488 were relined in the above manner and the number of personnel servicing the doors was decreased, improving the overall productivity of labour by 1.62%. There is one table.

ASSOCIATION: Yasinov Coke Oven Works (Yasinovskiy Koksokhimicheskiy Zavod).

AVAILABLE:

Card 1/1

SMOL'YANNIKOV, A.V.

[Experimental data on modifications in the central nervous system in wound gangrene] Eksperimental'nye dannye k voprosu ob izmeneniiakh v tsentral'noi nervnoi sisteme pri gazovoi infektsii ran. Arkh.pat., Moskva 12 no.1:84-89 Ja-F '50. (CLML 19:1)

1. Of the Department of Pathological Anatomy (Head -- Prof. A.N.Chistovich), Kuybyshev Military Medical Academy. (Author, Moscow).

SMOL'YANNIKOV, A. V.

Mechanism of development of anaerobic wound gangrene. Arkh. pat., Moskva 12 no. 5:44-52 Sept.Oct. 1950. (CLML 20:1)

1. Of the Central Pathologico-Anatomic Laboratory (Head — Prof. N. A. Krayevskiy), Moscow.

PA 192T70

USSR/Medicine - Healing of Wounds Sep/Oct 51

"Review of N. N. Anichkov, K. G. Volkova, and V. G. Garshin's 'Morphology of Wound Healing,'" Dr A. V. Smol'yannikov

"Arkh Patol" Vol XIII, No 5, pp 90-93

Authors studied wounds of soldiers between the 1st and 204th day after treatment at Med Sn Bn. Used rabbits when observation on humans was difficult. Reviewer recognizes value of results, but regrets that authors have not considered general biological and pathological

192T70

USSR/Medicine - Healing of Wounds Sep/Oct 51
(Contd)

aspects (disregard condition and effect of nerve trunks and endings, occasionally do not even indicate location of nonhealing wound, mention O. B. Lepeshinskaya, but do not discuss mechanism of cell formation, etc.). Concludes authors did not reconsider wartime results in the light of resolutions of the Pavlovian Session of Acad Sci USSR and Acad Med Sci USSR or of the Kuybyshev Meeting of Pathoanatomists, Feb 51. Published by Acad Med Sci USSR Press, 1951, 124 pp, 82 microphotographs.

192T70

SMOL'YANNIKOV, A. V., DR.

1. SMOL'IANNIKOV, A. V.

2. USSR (600)

4. Bones - Wounds and Injuries

7. Chronic suppurative processes in the callus following gunshot fractures of the bones. Arkhiv pat. 14, no. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

SHABANOV, A.N., otvetstvenny redaktor, zamestitel' ministra zdravookhraneniya SSSR; DAVIDOVSKIY, I.V., chlen redaktsionnoy kollegii; DVIZHKOV, P.P., chlen redaktsionnoy kollegii; KRAYEVSKIY, N.A., chlen redaktsionnoykollegii; MIGUNOV, B.I., chlen redaktsionnoy; SMOL'YANNIKOV, A.B., chlen redaktsionnoy kollegii; STRUKOV, A.I., chlen redaktsionnoy kollegii; SHLYAPNIKOV, N.F., chlen redaktsionnoy kollegii; SHTERN, R.D., chlen redaktsionnoy kollegii.

[Conference of pathological anatomists, Kuybyshev, 1951. Transactions] Soveshchanie patologoanatomov, Kuibyshev, 1951. Trudy. Otvetstvennyi redaktor A.N.Shabanov. Moskva, Medgiz, 1952. 253 p. (MLRA 6:7)
(Anatomy, Pathological)

SMIRNOV, Ye.I., general-polkovnik med. sluzhby, glav. red.;
DAVYDOVSKIY, I.V., KRAYEVSKIY, N.A., professor;
N.A., prof.; GLAZUNOV, M.F., prof., polkovnik med. sluzhby,
red.; SMOL'YANNIKOV, A.V., prof., polkovnik med. sluzhby, red.;
APATENKO, A.K., kand. med. nauk, kapitan med. sluzhby, red. toma;
BEL'CHIKOVA, Yu.S., tekhn. red.

[Soviet medicine during the Great Patriotic War; 1941-1945] Opyt sovetskoi meditsiny v Velikoi Otechestvennoi voine, 1941-1945 gg. Moskva, Medgiz. Vol.35. 1955. 491 p. (MIRA 15:2)

1. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Krayevskiy, Glazunov).
(WORLD WAR, 1939-1945--MEDICAL AND SANITARY AFFAIRS)

SMOL'YANNIKOV, A.V.(Moskva)

Cranial atrophy in increased intracranial pressure. Arkh.pat. 17 no.2:56-58 Ap-Je '55. (MLRA 8:10)

(CEREBROSPINAL FLUID,
intracranial pressure causing atrophy of cranium)
(ATROPHY,
cranium, caused by intracranial pressure)
(CRANIUM, diseases,
atrophy, caused by intracranial pressure)

DVIZHKOV, P.P., otvetstvennyy redaktor; AVTSYN, A.P., redaktor; VINOGRADOVA, T.P., redaktor; DERGACHEV, I.S., redaktor; KNYAZEVA, G.D., redaktor; PALEYES, L.O, redaktor; RAPOPORT, Ya.L., redaktor; SMOL'YANNIKOV, A.V., redaktor; UGRYUMOV, B.P., redaktor; SHTERN, R.D., redaktor; KOMAROVA, Z.N., redaktor; ZAKHAROVA, A.I., tekhnicheskiy redaktor

[Proceedings of the All-Union Conference of Pathoanatomists, Leningrad, July 4-9, 1954] Trudy Vsesoiuznoy konferentsii patologoanatomov 4-9 iiulia 1954 g. Leningrad. Moskva, Gos. izd-vo med. lit-ry, 1956. 411 p. (MLRA 10:3)

1. Vsesoyuznaya konferentsiya patolcgoanatomov. Leningrad, 1954.
(ANATOMY, PATHOLOGICAL--CONGRESSES)

SMOL'YANNIKOV, A.V., professor (Moskva)

Pathological anatomy and pathogenesis of acute coronary insufficiency
Klin.med. 34 no.7:40-46 Jl '56. (MLRA 9:10)

1. Iz patologoanatomicheskogo otdela (rukovoditel' - prof. A.V. Smol'yannikov) Instituta imeni Sklifosovskogo (fir. - zasluzhennyy vrach USSR M.M.Tarasov)
(CORONARY DISEASE
pathol. & pathogen.)

SMOL'YANNIKOV, A.V., polkovnik med.sluzhby, prof.

Pathological anatomy of radiation sickness. Voen.med.zhur. no. 9:87-90 S '57. (MIRA 11:3)
(RADIATION SICKNESS)

DAVYDOVSKIY, I.V.; SMOL'YANNIKOV, A.V., professor.

"Blood vessels of the heart under normal and pathological conditions" by B.V.Ognev, V.N.Savin, L.A.Savel'eva. Reviewed by I.V.Davydovskii, A.V.Smol'iannikov.Arkh.pat.19 no.2:85-89 '57. (MLRA 10:4)
(HEART--BLOOD SUPPLY) (OGNEV, B.V.)(SAVIN,V.N.)(SAVEL'EVA, L.A.)

SMOL'YANNIKOV, A.V., professor (Moskva)

Results of discussion of the problem of pathogenesis of acute coronary insufficiency and myocardial infarct [with summary in English]. Arkh. pat. 19 no.5:3-13 '57. (MLRA 10:8)

1. Iz patologoanatomicheskogo otdela (rukovoditel' - prof. A.V. Smol'yannikov) Instituta imeni Sklifosovskogo (dir. - zasluzhennyy vrach USSR M.M.Tarasov)

(CORONARY DISEASE)
(MYOCARDIAL INFARCT, etiol. and pathogen. review)

KRAYEVSKIY, N.A., prof.; SHOL'YANNIKOV, A.V., prof.

Some aspects of the work of Soviet pathanatomists in the field of pathology of war wounds. Arkh.pat. 19 no.10:60-68 '57. (MIRA 11:2)

1. Chlen-korrespondent AMN SSSR (for Krayevskiy)
(WOUNDS AND INJRURIES, pathology,
war wds., review (Rus))

DAVYDOVSKIY, I.V., professor (Moskva); SMOL'YANNIKOV, A.V., professor (Moskva)

Letter to the editor. Klin. med. 35 no.1:153-154 Ja '57
(MLRA 10:4)

1. Deystvitel'nyy chlen AMN SSSR (for Davydovskiy)
(HEART--DISEASES)

SOV/177-58-7-6/28

17(1)

AUTHOR: Smol'yannikov, A.V., Professor, Colonel of the Medical Corps

TITLE: The Problem of a Myocardical Infarct in Normal Coronary Arteries and Non-stenozing Coronarosclerosis

PERIODICAL: Voyenno-meditsinskiy zhurnal, 1958, Nr 7, pp 30-37 (USSR)

ABSTRACT: The author bases his article on 300 macroscopic and stereoangioroentgenographic investigations. Great importance is attributed to Byukhner's statement that in many cases the quantity of flowing blood does not meet the demand of the acting heart. According to N.N. Anichkov and A.L. Myasnikov, acute fatal coronary insufficiency and myocardial infarct mostly result from stenozing coronarosclerosis and from the development of coronary thrombosis. In case these symptoms are missed, other organic changes

Card 1/3

The Problem of a Myocardical Infarct in Normal Coronary Arteries and Non-stenozing Coronarosclerosis

coronary insufficiency and myocardial infarct may develop from a single functional disturbance of the coronary blood circulation such as angiospasm; 2) Functional coronary disturbances cause morphological changes in the walls of the small ramifications of coronary arteries in the form of plasmatic infiltration and in the presence of atheriosclerotic atheroma - disturbances of the circulation of blood in the vessels of atheromas; 3) Acute fatal coronary insufficiency and myocardial infarct result from continuous disturbances of the coronary circulation which are not always clearly clinically recognizable but lead to compensatory changes in coronary arteries. There are 4 photographs and 2 Soviet references.

Card 3/3

SMOL'YANNIKOV, A.V.; NADDACHINA, T.A. (Moskva)

Types of cardiac blood supply. Arkh. pat. 22 no. 10:17-24 '60.
(MIRA 13:12)

1. Iz patologoanatomicheskogo otdela (rukovoditel' - prof. A.V. Smol'yannikov) Instituta skoroy pomoshchi imeni N.V. Sklifosovskogo (dir. - zasluzhennyy vrach USSR M.M. Tarasov).
(CORONARY VESSELS)

SMOL'YANNIKOV, A.V.; MADDACHINA, T.A.

Coronary sclerosis and collateral circulation in the heart and its significance in coronary insufficiency. Arkh. pat. 22 no. 11:24-33 '60. (MIRA 14:1)

(CORONARY HEART DISEASE)

SMOL'YANNIKOV, A.V.; NADDACHINA, T.A.

Angioarchitectonics of the heart and its changes in stenosing coronary sclerosis. Klin. med. 38 no. 2:23-32 F '60. (MIRA 14:1)

(CORONARY HEART DISEASE) (ANGIOCARDIOGRAPHY)

NADDACHINA, T.A.; SMOL'YANNIKOV, A.V., prof. (Moskva)

Protracted recurrent myocardial infarctions and progressive cardiosclerosis. Klin.med. 39 no.5:73-80 My '61. (MIRA 14:5)

1. Iz patologoanatomicheskogo otdela (zav. - prof. A.V. Smol'yannikov) Instituta imeni N.V. Sklifosovskogo (nauchnyy rukovoditel' - prof. B.A. Petrov, dir. - zasluzhennyy vrach USSR M.M. Tarasov).

(HEART--INFARCTION) (HEART--DISEASES)

ARUTYUNOV, V. D.; SMOL'YANNIKOV, A. V. (Moskva)

Vascularization of infarcts and scars of the myocardium. Arkh. pat. no.7:20-28 '61. (MIRA 15:4)

(HEART—INFARCTION)

BRUMBERG, A.S., prof.; VAKHURKINA, A.M.; VINOGRADOVA, T.P., prof.; LAVRISHCHEVA, G.I., kand. med. nauk; PERMYAKOV, N.K., doktor med. nauk; SMOL'YANNIKOV, A.V., prof.; STRUKOV, A.I., prof.; otv. red.; DVIZHKOV, P.P., prof., zamestitel' otv. red.; APATENKO, A.K., kand. med. nauk; SENCHILO, K.K., tekhn. red.

[Multivolume manual on pathological anatomy] Mnogotomnoe rukovodstvo po patologicheskoi anatomii. Otv. red. A.I.Strukov. Moskva, Medgiz. Vol.6. [Pathological anatomy of diseases of the osteoarticular system, muscles, and tendons] Patologicheskaia anatomiia boleznei kostno-sustavnoi sistemy, myshts i sukhozhilii. Red. toma T.P.Vinogradova. 1962. 518 p. (MIRA 15:4)

1. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Strukov).
(BONES--DISEASES) (JOINTS--DISEASES) (MUSCLES--DISEASES)

VINOGRADOVA, T.P., prof.; SMOL'YANNIKOV, A.V., prof. (Moskva)

"Compensatory and reparatory reactions of bone tissue" by P.V. Sipovskii. Reviewed by T.P. Vinogradova, A.V. Smol'iannikov. Arkh. pat. 10:83-87 '62. (MIRA 17:1)

LYUBUSHIN, A.A. (Moskva); SMOL'YANNIKOV, A.V., prof.

Hypertrophy of the heart in cardiosclerosis caused by chronic coronary insufficiency. Kardiologiia 2 no.3:25-30 My-Je '62. (MIRA 16:4)

(HEART--DISEASES) (ARTERIOSCLEROSIS) (HYPERTENSION)

NADDACHINA, T.A.; SMOL'YANNIKOV, A.V.

Types of the blood supply of the heart, their changes during various age periods and under pathological conditions. Arkh. anat., gist. i embr. 8:44-54 '63. (MIRA 17:10)

1. Patolgoanatomicheskiy otdel (rukovoditel' - A.V.Smol'yannikov) Instituta imeni N.V.Sklifovskogo, Moskva.

SMOL'YANNIKOV, Anatoliy Vladimirovich; NADDACHINA, Tat'yana Alekseyevna; APATENKO, A.K., red.; KUZ'MINA, N.S., tekhn. red.

[Problems of pathological anatomy and the pathogenesis of coronary insufficiency]Voprosy patologicheskoi anatomii i patogeneza koronarnoi nedostatochnosti. Moskva, Medgiz, 1963. 245 p. (MIRA 16:4)

(CORONARY HEART DISEASE)

[illegible]YANNIKOV, A.V., prof.; NAIDACHINA, T.A., doktor; [illegible]
doktor med. nauk

Clinical anatomical characteristics of acute surgical diseases of the abdominal cavity in elderly persons; based on materials of the Sklifosovskii Institute. Trudy Inst. im. N.V. Sklif. 9: 13-19 '63. (MIRA 18:6)

SMOL'YANNIKOV, A.V., prof.; NADDACHINA, T.A. (Moskva)

Anomalies of the coronary arteries of the heart. Arkh. Pat. 25 no.6:3-16 '63. (MIRA 17:1)

1. Iz kafedry patologicheskoy anatomii (zav. - prof. A.V. Smol'yannikov) TSentral'nogo instituta usovershenstvovaniya vrachey.

SMOL'YANNIKOV, A.V. (Moskva)

Nosology, nomenclature and statistical recording of myocardial infarct. Terap. arkh. 35 no.5:91-93 My '63 (MIRA 16:12)

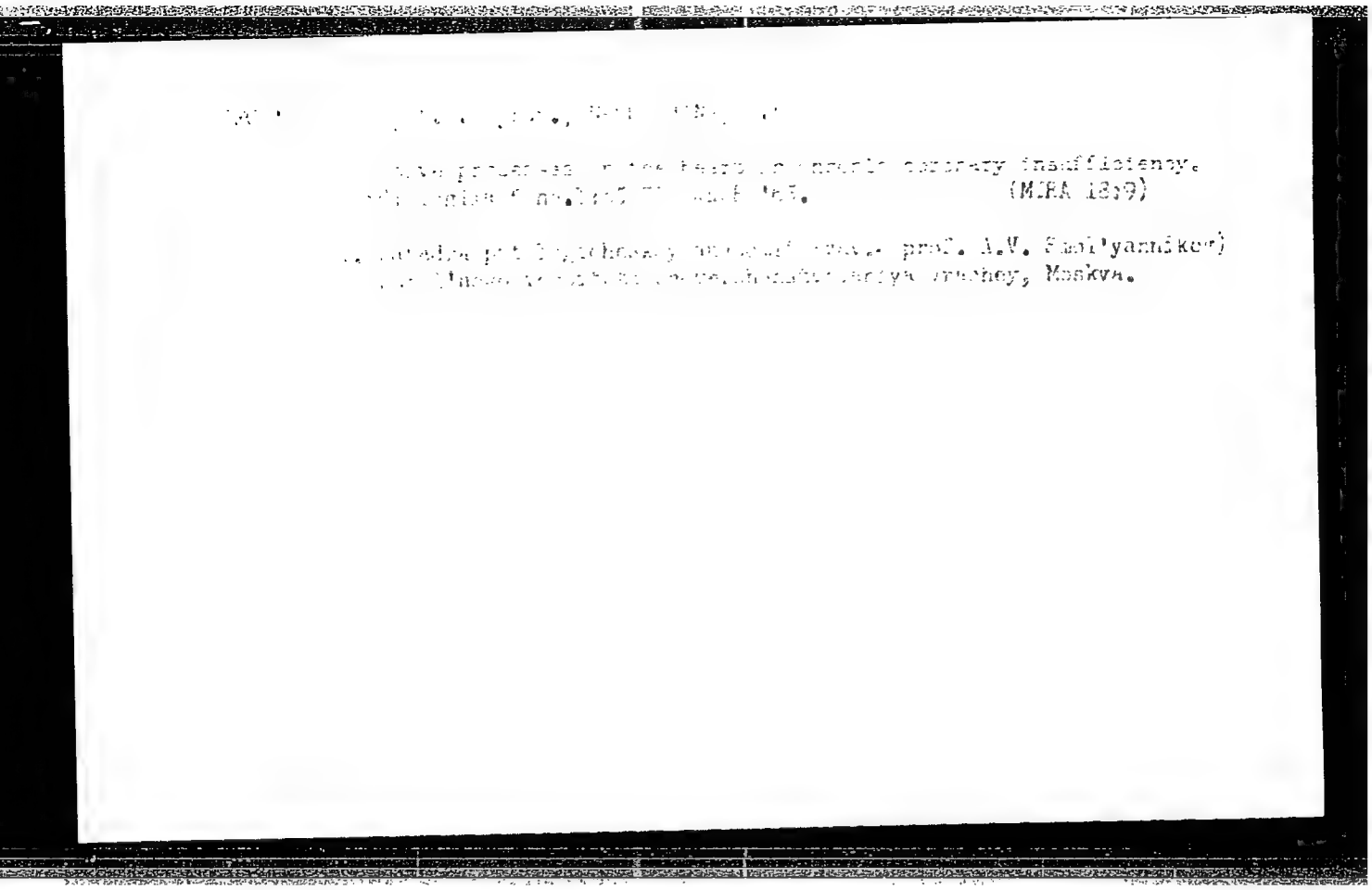
SMOL'YANNIKOV, A.V.; LIKHACHEV, Yu.P. (Moskva)

Effectiveness of treating chronic coronary insufficiency by bilateral ligature of the internal thoracic arteries. Grud. khir. 6 no.1:99-102 Ja-F '64. (MIRA 18:11)

NADDACHINA, T.A.; SMOL'YANNIKOV, A.V. (Moskva)

Focal dystrophic and necrotic processes (so-called lesions) of the myocardium. Arkh. pat. 26 no.9:3-15 '64.
(MIRA 18:4)

1. Kafedra patologicheskoy anatomii (zav. - prof. A.V.Smol'yannikov) TSentral'nogo instituta usovershenstvovaniya vrachey.



SMOL'YANNIKOV, A.V.; NADDACHINA, T.A. (Moskva)

Formation and organization of the myocardial infarct. Arkh. pat. 27 no.6:14-24 '65. (MIRA 19:1)

1. Kafedra patologicheskoy anatomii (zav. - prof. A.V. Smol'yannikov) TSentral'nogo instituta usovershenstvovaniya vrachey.
Submitted May 26, 1964.

SMOL'YANNIKOV, V., kand. biolog. nauk (Pyatigorsk)

Apple oystershell scale. Zashch. rast. ot vred. i bol. 10 no.8:40-41 '65. (MIRA 18:11)

SMOL'YANNIKOV, V.V.

Data on the ecology of the shield bug Eurygaster integriceps Put. (Hemiptera- Heteroptera, Pentatomidae) in Ciscaucasia. Ent.oboz. 34:88-92 '55. (MLRA 9:5)

(Caucasus, Morthern--Eurygasters)

Insect and Mite Pests.

ABS. JOUR : Ref Zhur-Biologiya, No.4, 1959, No. [illegible]

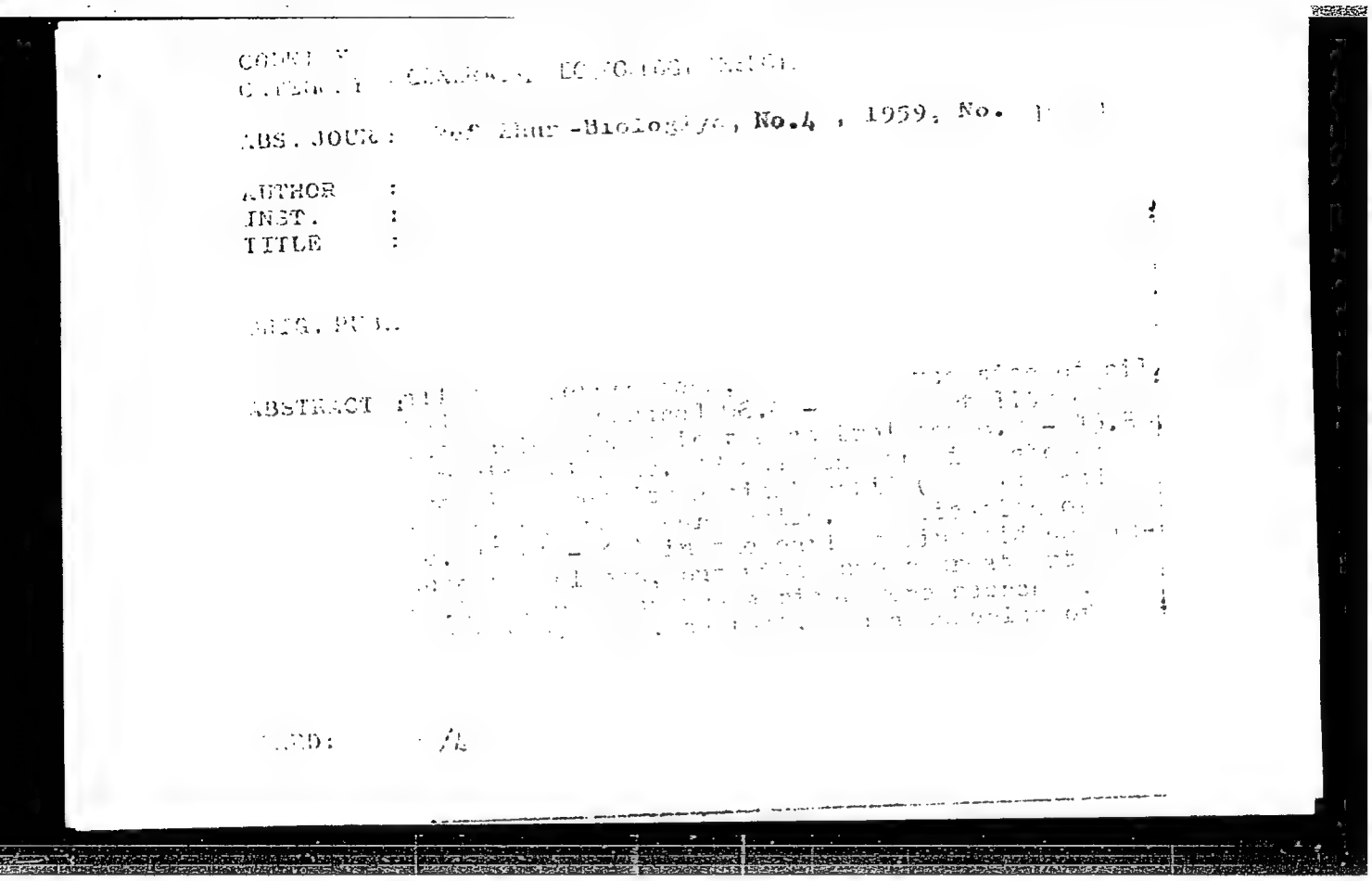
AUTHOR : Smol'yannikov, V.V.

INST. : Stavropol Sci.Res.Inst. of Agriculture

TITLE : [illegible]

ORIG. PUB. : [illegible] 1957, No.3, 54-50

ABSTRACT : [illegible] Stavropol'- [illegible] oil [illegible] and spindle oil [illegible] produced a 100% mortality. [illegible]



CARD 1 OF [illegible]

ABS. JOUR. : Ref Zhur -Biologiya, No.4 , 1959, No. [illegible]

AUTHOR :
INST. :
TITLE :

REF. PUB.

ABSTRACT [illegible]

CARD: 1/2

SMOL'YANNIKOV, V.V., starshiy nauchnyy sotrudnik.

Improve the spraying of orchards. Zashch. rast. ot vred. i bol. 3 no.3:21-23 My-Je '58. (MIRA 11:6)

1. Stavropol'skiy nauchno-issledovatel'skiy institut sel'skogo khozyaystva.
(Fruit--Diseases and pests) (Spraying and dusting)

SMOL'YANNIKOV, V. V.; PUDOVKIN, A. M.

"Granary pests" by P. K. Chernishov. Reviewed by V. V. Smol'iannikov, A. M. Pudovkin. Zashch. rast. ot vred. i bol. 5 no.5:53 My '60. (MIRA 16:1)

1. Direktor Stavropol'skoy karantinnoy laboratorii (for Smol'yannikov). 2. Starshiy agronom-entomolog Stavropol'skoy karantinnoy laboratorii (for Pudovkin).

(Grain—Diseases and pests)
(Chernishov, P. K.)

SMOL'YANNIKOV, V.V.

Improving the system of measures against the San José scale.
Zashch. rast. ot vred. i bol. 6 no.4:51-52 Ap '61. (MIRA 15:6)

1. Direktor Stavropol'skoy karantinnoy laboratorii.
(San José scale)

SMOL'YANNIKOV, V.V., kand.biolog.nauk (Pyatigorsk)

It is possible to exterminate the San José scale. Zashch.rast. ot vred. i bol. 7 no.6:38-39 Je '62. (MIRA 15:12)
(San Jose scale) (Insecticide)

KOROTKIKH, G.I., kand.sel'skokhoz.nauk; POMAZKOV, Yu.I., mladshiy nauchnyy sotrudnik; SMOL'YANNIKOV, V.V.; VODOLAGIN, V.D., nauchnyy sotrudnik

Questions and answers. Zashch. rast. ot vred. i bol. 8 no.5: 42 My '63. (MIRA 16:9)

1. Nauchno-issledovatel'skiy institut sadovodstva nechernozemnoy zony (for Pomazkov). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut maslichnykh i efiromaslichnykh kul'tur (for Vodolagin).
(Plants, Protection of)

SMOL'YANNIKOV, V.V., kand.biolog.nauk

Controlling the San Jose scale. Zashch. rast. ot vred. i bol. 8 no.11:40-42 N '63. (MIRA 17:3)

1. Pyatigorskaya karantinnaya laboratoriya po kaliforniyskoy shchitovke.

SMOL'YANNIKOV, V.V.

Taking shortcomings into account. Zashch. rast. ot vred. i bol. 9 no.5:61-62 '64. (MIRA 17:6)

1. Zaveduyushchiy otdelom toksikologii Pyatigorskoy karantinnoy laboratorii po kaliforniyskoy shchitovke.

SMOL'YANNIKOV, V.V., kand. biolog. nauk

A dangerous pest. Zashch. rast. ot vred. i bol. 9 no.8: 37-38 '64. (MIRA 17:12)

SHOLIAKOV, A. A.

Neurologic hammer. Sovet. med. No. 12, Dec. 50. p. 25-6

1. Leningrad.

CLML 20, 3, March 1950

EXCERPTA MEDICA Sec 11 Vol.11/9 O.R.L. Sep 58

1548. AN INSTRUMENT (DIAPASONOMETER) FOR THE ESTIMATION OF FUNCTION OF THE OLFACTORY ANALYSOR (Russian text) - Smolyanov A. A. - NAUCH. RABOT I LENINGR. VOEN.-MORSK. GOSP. 1957 (178-180)

Upper and lower threshold are determined by varying the intensity of the stimulus. The method is based on the interaction of the first and second signal systems. Verbal stimulation of the secondary system is followed by an unconditional stimulus being applied to the first one. The instrument and the method of use are described. (S)

EXCERPTA MEDICA Sec 11 Vol.11/6 O.R.L. June 58

SMOLYANOV, A.A.

1086. AN INSTRUMENT (DIAPASONOMETER) FOR THE ESTIMATION OF FUNCTION OF THE AUDITORY ANALYSOR (Russian text) - Smolyanov A. A. NAUCH. RABOT. I. LENINGR. VOEN.-MORSK. GOSP. 1957 (181-187)

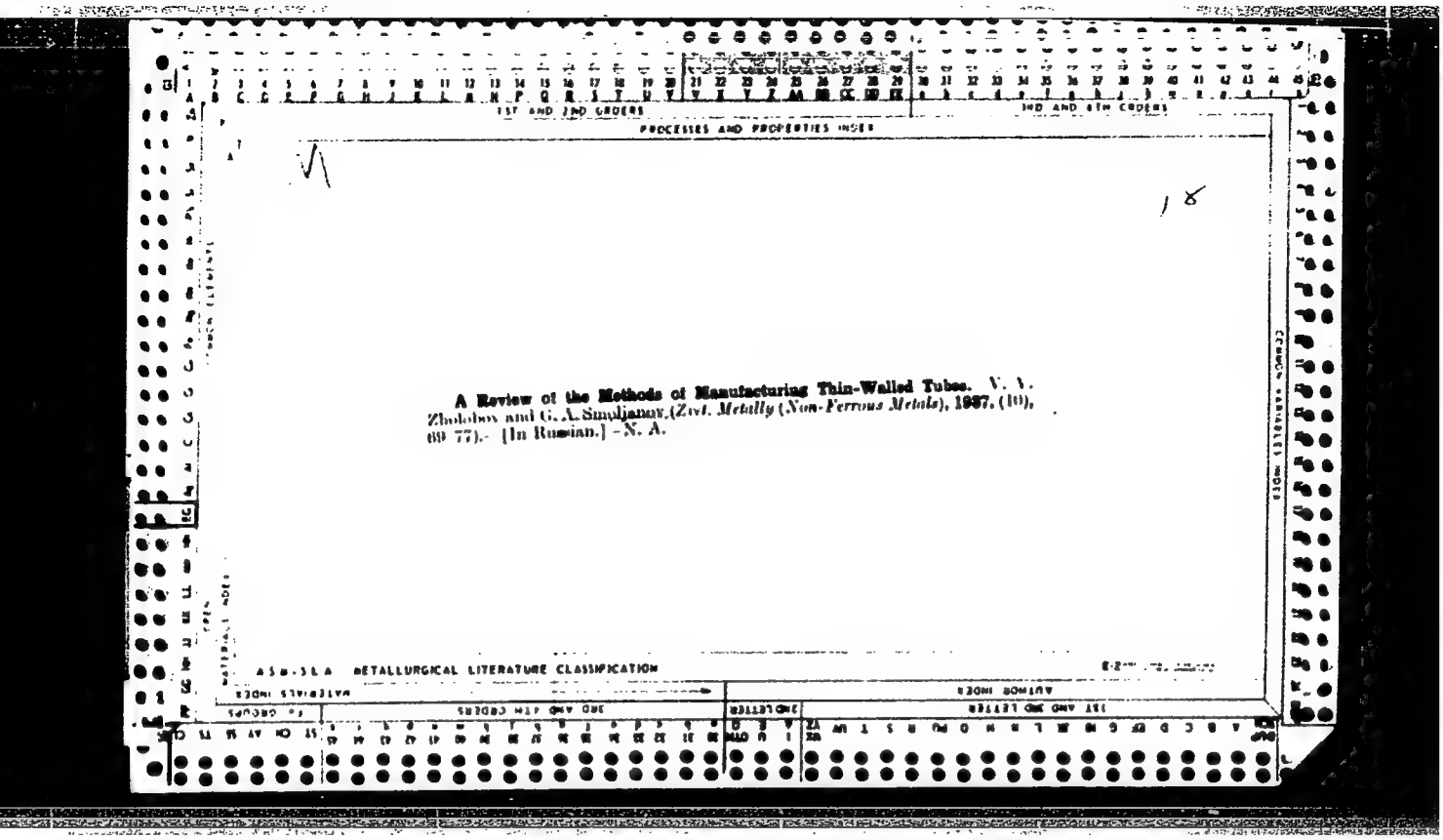
An instrument allowing measurement of the upper and lower thresholds for sounds of different amplitudes is described. The method is based on the interaction between the first and second signal systems. The paper includes 4 audiograms and a drawing of the instrument. (S)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001651720017-1"

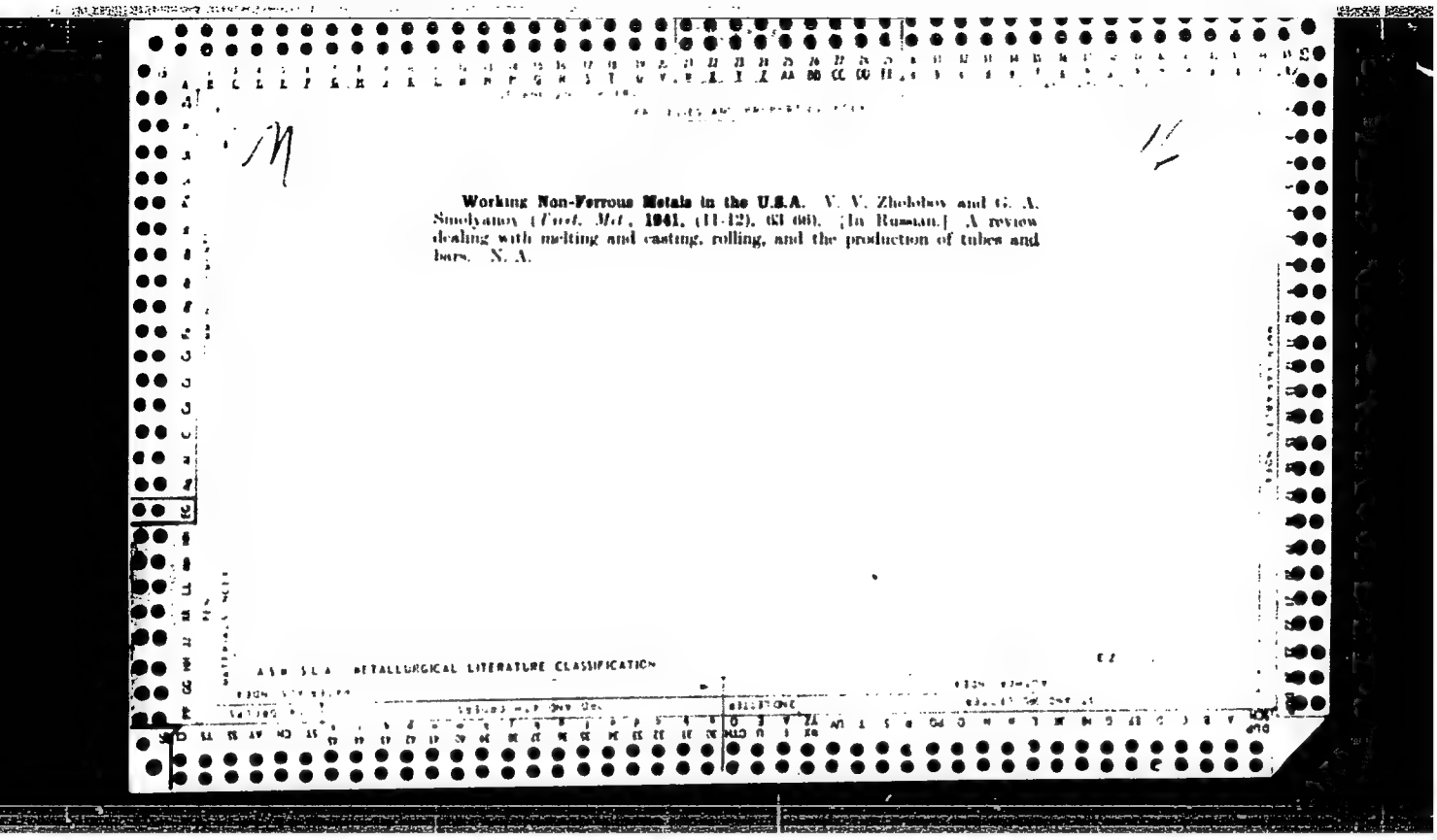
GLÜZBARG, B.Ye.; SMOLYANOV, A.A. (Leningrad)

Medical service on dispensary level. Sov. zdrav. 19 no.9:43-47 '60. (MIRA 13:11)

1. Iz orgmetodkabineta Basseynovoy klinicheskoy bol'nitsy imeni Chudnovskogo - glavnyy vrach - zasluzhennyy vrach RSFSR A.N.Shakunov i Severo-Zapadnogo vodzdravotdela (nachal'nik S.V.Kenska). (MEDICINE, NAVAL)



A Review of the Methods of Manufacturing Thin-Walled Tubes. V. V. Zhdobov and G. A. Smoljanov. (*Tsvet. Metally (Non-Ferrous Metals)*, 1957, (10), 69-77).- [In Russian.] - N. A.



Working Non-Ferrous Metals in the U.S.A. V. V. Zhelobov and G. A. Smolyanov (*Tsvet. Met.*, **1941**, (11-12), 63–66). [In Russian.] A review dealing with melting and casting, rolling, and the production of tubes and bars. N. A.

SMOLYANOV, G.A., inzhener; KRUCHER, G.N.

Methods of titanium surface scouring. TSvet.met. 29 no.5:94-96 My '56. (MLRA 9:8)

(Titanium--Metallurgy)

SMOLYANOV, G.

All-Union conference of workers in the pipe industry.
TSvet. met. 29 no.10:82-83 O '56. (MLRA 9:12)

(Rolling (Metalwork)) (Pipe)

SMOLYANOV, G.; SKDOV, V.; IVANOV, B.

Using work experience of ferrous metallurgical plants for designing nonferrous metal refineries and metalworking plants. TSvet. met. 31 no.4:58-66 Ap '58. (MIRA 11:5)

(Nonferrous metals--Metallurgy)
(Metallurgical plants)

307/136-58-11-21/21

AUTHOR: Smolyanov, G.A.

TITLE: Titanium Pressing Technology (Tekhnologiya pressovaniya titana)

PERIODICAL: Tsvetnyye Metally, 1958, Nr 11, pp 91-95 (USSR)

ABSTRACT: This is a review, based on non-Soviet articles, of American titanium pressing practice.

Card 1/1

USCOMM-DC-60363

BOGOYAVLENSKIY, Konstantin Nikolayevich, dotsent; ZVEREV, Grigoriy Ivanovich; SMOLYANOV, G.A., red.; LANOVSKAYA, M.R., red. izd-va; MIKHAYLOVA, V.V., tekhn.red.

[Machinery for shaping nonferrous metals and alloys by pressure] Mekhanicheskoe oborudovanie dlia obrabotki davleniem tsvetnykh metallov i splavov. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1959. 350 p. (MIRA 13:2)
(Rolling mills) (Sheet-metal work)
(Forging machinery)

TOMKEVICH, I., inzh. (Leningrad); SMOL'YANOV, I. (Novosibirsk); GOLOPEROV, I.; SALUCHIN, T. (g. Sterlitamak); NIKIFOROV, N., kranovshchik (g. Aktyubinsk); GEL'FOND, S. (Odessa)

Do more today than you did yesterday. Sov. profsoiuzy 18 no.19:19 O '62. (MIRA 15:9)

1. Predsedatel' Donetskogo oblastnogo komiteta professional'nogo soyuza rabochikh neftyanoy i khimicheskoy promyshlennosti, g. Donetsk (for Goloperov).

(Socialist competition) (Technological innovations)

SMOL'YANOV, I. I.

"Stages in the Development of the Whitefish, Nel'ma and Siga." Cand Biol Sci, Inst of Animal Morphology imeni A. N. Severtsov, Acad Sci USSR, Moscow, 1954. (KL, No 8, Feb 55)

SO: Sum. No. 631, 26 Aug 55-Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (14)

USSR/General Biology - Individual Development. Embryonal Development. B.

Abs Jour : Ref Zhur - Biol., No 21, 1958, 94627

Author : Smol'yanov, I.I.

Inst : Institute of Animal Morphology AS USSR

Title : Development of the Stenodus leucichthys leucichthya Guld., the Stenodus leucichthys nelma Pall. and the Coregonus lavaretus nelmuschka Pravdin.

Orig Pub : Tr. In-ta morfol. zhivotnykh AN SSSR, 1957, vyp. 20, 232-294.

Abstract : Roe of the Stenodus leucichthys was artificially fertilized which had been obtained from the Ufim station, and the roe was developed in the aquariums of Moscow; roe of the Stenodus leucichthys nelma Pall. and Coregonus lavaretus nelmischka Pravdin from Lake Kuben were incubated in the

Card 1/3

USSR/General Biology - Individual Development. Embryonal Development. B.

Abs Jour : Ref Zhur - Biol., No 21, 1958, 94627

Volkhov Station and in Moscow. The larvae and young that developed in natural conditions were also investigated. The roe contain small drops of fat which later unite into one large drop which is preserved until the air bladder is filled and carries out the role of a supplementary hydrostatic organ. In the dividing stages, the embryos are oriented upwards by the animal pole; in the stage of the establishment of the apical organs the abdominal surface of the yolk sac is turned upward; in the second half of the embryonic period - the head. The larvae are hatched fully developed. In all stages there are fewer embryos of the whitefish than of the other types. In the Stenodus leucichthys nelma Pall. the fin-rays ossify somewhat later than in the Stenodus leucichthys leucichthys Guld. The lower jaw of the Stenodus leucichthys nelma Pall. is longer than the upper; it is the reverse in the whitefish.

Card 2/3

The drifting larvae rise from the bottom to the upper layers of the water which improves respiration conditions

SMOL'YANOV, I.I.; MAYKOVA, Ye.V.

Occurrence of sexually mature Polypodium hydriforme Ussov (Coelenterata) on sturgeon fry. Dokl. AN SSSR 141 no.5:1271-1274 D '61. (MIRA 14:12)

1. Institut morfologii zhivotnykh im. A.N. Severtsova AN SSSR i Institut tsitologii AN SSSR. Predstavleno akademikom Ye.N. Pavlovskim.

(Volga River--Coelenterata)
(Parasites--Sturgeons)

S/109/63/008/002/006/028
D266/D308

AUTHORS: Bekasov, A.P. and Smolyanov, O.G.

TITLE: On the transient characteristics of parametric amplifiers and converters

PERIODICAL: Radiotekhnika i elektronika, v. 8, no. 2, 1963, 241-247 .

TEXT: The following assumptions are used: (i) linearity, (ii) the reactances vary in a strictly harmonic manner, (iii) the Q factor of the circuits is sufficiently high so that only the harmonics contained in the pass-band are taken into account. The approximate method used is taken from I.S. Gonorovskiy's book (Osnovy radiotekhniki (Fundamentals of radioengineering), Svyazizdat, 1957). For a two-circuit regenerative converter the complex transmission coefficient takes the following form

$$K[j(n\omega_p - \omega_s)] = \overline{C}_1 \frac{A}{[1 + j(a_1 - \beta_1)]\,[1 + j(a_2 + \beta_2)] - A^2} \qquad (2)$$

Card 1/3

On the transient ...

where $(n\omega_p - \omega_s)$ - output frequency, ω_p - pumping frequency, ω_s - input frequency, n - fixed integer, $A^2 = Q_1 Q_2 m_1 m_2$, $Q_i (i = 1,2)$ - quality factor of the respective circuits, m_i - reactance modulation coefficients, a_i - generalized tuning parameters, τ_i - time constants, $\beta_1 = (\omega_{so} - \omega_1)\tau_1$, $\beta_2 = (n\omega_p - \omega_{so} - \omega_2)\tau_2$, ω_i - resonant frequencies of the circuits, $\overline{C}_1$ - complex coefficient depending on the damping of the circuits, and on the coupling between amplifier and load, and on the ratio of pumping frequency to signal frequency. Applying the residue theorem, choosing ω_{so} so as to make $\beta_1 = \beta_2 = \beta$, assuming that $1 - A^2 + \beta^2 \ll 1$, $\beta(\tau_2 - \tau_1) \ll \tau_1 + \tau_2$, $t \gg \tau_1\tau_2/(\tau_1 + \tau_2)$ an equivalent time constant is derived

$$\tau_{eq} = \frac{\tau_1 + \tau_2}{1 - A^2 + \beta^2}$$

For $\beta = 0$ and for large gain

$$\tau_{eq} = (\tau_1 + \tau_2)\sqrt{K_p}\ C$$

Card 2/3

S/109/63/008/002/006/028
D266/D308

On the transient ...

where C - constant, K_p - power gain. For $\tau_1 = \tau_2$ and $A^2 < \beta^2$ beating appears. In case of non-regenerative converters the transient phenomena are the same as in two coupled circuits, only A has to be replaced by $K\sqrt{Q_1 Q_2}$ where K is the coupling coefficient between the circuits. There are 3 figures.

SUBMITTED: February 20, 1962

Card 3/3

L 17277-63 BDS
ACCESSION NR: AP3004375 S/0109/63/008/008/1407/1417

4/5

AUTHOR: Smolyanov, O. G.; Bekasov, A. P.

TITLE: Complex frequency characteristics of linear systems with periodically varying parameters

SOURCE: Radiotekhnika i elektronika, v. 8, no. 8, 1963, 1407-1417

TOPIC TAGS: frequency characteristic, parametric amplifier, parametric converter, mixer

ABSTRACT: A theoretical method is considered of approximate determination of frequency characteristics of periodically-time-varying linear systems. The method is based on a description of a two-pole network by an infinite matrix whose determinant is similar to that of the Hill matrix. Each parameter may vary according to its own law, but their periods are equal. Limited-order matrix are used in analyses of practical cases. For a high Q-factor of the

Card 1/2

L 17277-63
ACCESSION NR: AP3004375 0

oscillatory system and small relative amplitude of varying parameters, 2nd and 3rd order matrices provide sufficient accuracy. With the 2nd order matrices, complex transfer coefficients of parametric two-circuit amplifiers, converters, and varying-resistance converters are found. The formulas obtained for complex transfer coefficients are similar to the equations of resonance characteristics of two-circuit coupled systems, which fact makes the formulas easy to see and convenient in application. Orig. art. has: 3 figures and 43 formulas.

ASSOCIATION: none

SUBMITTED: 05Jul62 DATE ACQ: 20Aug63 ENCL: 00

SUB CODE: PH, GE NO REF SOV: 003 OTHER: 009

Card 2/2

SMOLYANOV, O.G.

Nonlinear topological spaces without the first denumberability axiom. Usp. mat. nauk 19 no.6:199-200 N-D '64 (MIRA 18:2)